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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/559,767	03/16/2006	Roberto Avanzi	DE030202US1	5670		
65913 NXP, B,V,				EXAMINER		
NXP INTELLECTUAL PROPERTY & LICENSING			GELAGAY, SHEWAYE			
	M/S41-SJ 1109 MCKAY DRIVE SAN JOSE, CA 95131		ART UNIT	PAPER NUMBER		
SAN JOSE, CA			2437			
			NOTIFICATION DATE	DELIVERY MODE		
			02/09/2010	ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ip.department.us@nxp.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)		
10/559,767	AVANZI, ROBERTO		
Examiner	Art Unit		
SHEWAYE GELAGAY	2437		

	SHEWAYE GELAGAY	2437					
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress				
THE REPLY FILED 25 January 2010 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.							
 X The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidavit eal (with appeal fee) in compliance	, or other evidence, with 37 CFR 41.31; or	hich places the (3) a Request				
The period for reply expiresmonths from the mailing The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire le	dvisory Action, or (2) the date set forth i						
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(b). ONLY CHECK BOX (b) WHEN THE						
Extensions of time may be obtained under 37 CFR 1.138(a). The date where been filled is the date for purposes of determining the period of valued 27 CFR 1.17(a) is calculated from: (1) the expiration date of thes set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	on which the petition under 37 CFR 1.13 ension and the corresponding amount of hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as				
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed with AMENING TO. 	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the					
AMENDMENTS							
The proposed amendment(s) filed after a final rejection, t (a) They raise new issues that would require further cor (b) They raise the issue of new matter (see NOTE below	nsideration and/or search (see NOT w);	E below);					
 (c) They are not deemed to place the application in beti appeal; and/or 	ter form for appeal by materially rec	lucing or simplifying ti	ne issues for				
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	cted claims.					
4. The amendments are not in compliance with 37 CFR 1.12	11 Can attached Nation of Nan Co.	maliant Amandment /	OTOL 224)				
Applicant's reply has overcome the following rejection(s):		ripliant Americanent (1 OL-324).				
Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	it canceling the				
7. For purposes of appeal, the proposed amendment(s): a) [how the new or amended claims would be rejected is prov The status of the claim(s) is (or will be) as follows:		be entered and an ex	planation of				
Claim(s) allowed:							
Claim(s) objected to: Claim(s) rejected: 1-13.							
Claim(s) rejected: 1-75. Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 							
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary.	vercome <u>all</u> rejections under appea and was not earlier presented. Se	l and/or appellant fail e 37 CFR 41.33(d)(1	s to provide a				
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	n of the status of the claims after er	try is below or attach	ed.				
The request for reconsideration has been considered but <u>See Continuation Sheet.</u>	does NOT place the application in	condition for allowan	ce because:				
 12. Note the attached Information Disclosure Statement(s). (13. Other: 	PTO/SB/08) Paper No(s)						
/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2437							

Continuation of 11, does NOT place the application in condition for allowance because: Applicant's argument with respect to the rejection of the claims over the combination of Coron and Lauter has been considered but are not persuasive. The applicant argued that "claim 1 is patentable over the proposed combination of Coron and Lauter because the reasoning in the Office Action is not rational and, hence, is insufficient to establish prima facie case of obviousness." Examiner respectfully disagrees. Coron teaches resistance against "Differential Power Analysis" (DPA) for Elliptic Curve cryptosystem by providing countermeasure that thwart the attacks that enable to recover the private key stored inside the smart-card. Specifically, they teach three countermeasures that prevent from the attack such as randomization of the private exponent, blinding the point P and randomized projected coordinates. And Lauter teaches a cryptosystem based on a Jacobian of a hyperelliptic curve is being used. Typically, the curve-based cryptosystem is based on a group whose size is known to the cryptosystem designer but unknown and believed difficult to determine for attackers of the cryptosystem wherein the encryption and decryption that uses keys that are generated based on aspects or characteristics of a mathematical hyperelliptic curve. This exemplary cryptosystem is based on the Jacobian of the hyperelliptic curve being used, and the secret group size is the size of the group points on the Jacobian curve. The cryptosystem is described primarily with respect to generation of a "short" signature or product identifier which is code that allows validation and/or authentication of the machine, program user, etc. The signature is a "short" signature in that it uses a relatively a small number of characters. Lauter teaches that encryption and decryption are performed in cryptosystem based on secret, which is the size of of the group of points on the Jacobian of a hyperelliptic curve. The hyperelliptic curve can have genus greater than or equal to two. However, in certain implementations the curve may be elliptic curve (e.g., a hyperelliptic curve having genus egual to one). The applicant further argued that "the stated advantage comes from the secondary reference and specifically refers to advantages of elliptic curve cryptography technique compared with a conventional RSA method, which does not appeal to be an elliptic or hyperelliptic technique. Thus, the stated advantage is not related to the proposed modification using the hyperelliptic technique within an elliptic system." Examiner would like to point out that Lauter teaches the benefit of utilizing higher genus curves, e.g. hyperelliptic curves (based on a Jacobian of the hyperelliptic curve) with genus greater than or equal to two that would likely improve the security of the public key cryptosystem. The combination of Coron and Lauter teaching is consistent with the Applicant's teaching described on paragraph [0014] "the present invention is based on the principle of providing counter-measures for defence against attacks based on DPA in the implementation of hyperelliptic cryptosystems, and in particular that of scalar multiplication on the Jacobian variation." It would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Coron with Lauter in order to provide advantage of improved security while requiring shorter key lengths. (col. 2, lines 15-35; Lauter) Applicant's argument with respect to the rejection of the claims 1 and 8 over the combination of Joyce in view of Lauter is persuasive and the rejection of claims 1 and 8 has been withdrawn. The examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992)